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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,196	04/03/2006	Mathias Destarac	60838.000510	5183
21967 HUNTON & W	7590 05/04/200 TLLIAMS LLP	EXAMINER		
INTELLECTUAL PROPERTY DEPARTMENT			PEZZUTO, HELEN LEE	
SUITE 1200	1900 K STREET, N.W. SUITE 1200		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20006-1109			1796	
			MAIL DATE	DELIVERY MODE
			05/04/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/534,196	DESTARAC, MATHIAS				
Office Action Summary	Examiner	Art Unit				
	Helen L. Pezzuto	1796				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
	/ IO OFT TO EVEIDE A MONTH	0) OD TUDTY (00) DAYO				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period value of the period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>09 Ap</u>	oril 2009.					
·— · · · · · · · · · · · · · · · · · ·	action is non-final.					
3) Since this application is in condition for allowar						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>15-33</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>15-33</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct		,				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list	or the certified copies not receive	a.				
Attachmont(a)						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application				

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DETAILED ACTION

Election/Restrictions

Applicant's election of the various species in the reply filed on 4/9/09 is acknowledged.

Currently, claims 15-33 are pending in this application.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 15-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lewis et al. (WO-929).

WO 02/28929 to Lewis et al. discloses zwitterionic polymers having controlled architectures. Prior art polymers comprises zwitterionic monomers as defined by formula I, and at least one comonomers selected from anionic, cationic, and nonionic monomers (page 4, line 4 to page 8, line 4). Suitable comonomers include those embracing the instant part B monomers, such as styrene, vinyl carboxylic esters, and alkyl (meth)acrylates as set forth in formula X (page 8, line 5 to page 9, line 7). Prior

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art specifically teaches using the resultant zwitterionic polymer as intermediate for the preparation of block copolymers within the scope of the instant claims (page, 11, lines 5-17; page 16, line 22 to page 17, line 20). Accordingly it would have been obvious to one having ordinary skill in the art to prepare a block copolymer comprising a zwitterionic polymeric segment and a nonionic block segment within the scope of the instant claims, motivated by the reasonable expectation of success in preparing polymer products having controlled architectures and resultant properties.

3. Claims 15-17, 19-31, and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tamazawa et al. (US-963).

US 6,174,963 to Tamazawa et al. discloses an amphoteric resin derived from graft polymerization of prepolymer segments A_2 , B_2 , and component C (see abstract, col. 2, lines 5-51; col. 5, lines 19-46). Specifically, prior art A_2 prepolymer is obtained by copolymerization of amino groups-containing basic monomers and other non-ionic comonomers within the scope of the instant cationic and neutral units (col. 3, lines 1-30), whereas B_2 prepolymer is derived from carboxyl group-containing acidic monomer within the scope of the instant anionic unit (col. 4, lines 16-46). Furthermore, other ethylenically unsaturated monomer such as (meth)acrylic acid, and (meth)acrylamide are

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also suggested as suitable comonomers (col. 5, lines 25-30).

Accordingly, it would have been obvious to one having ordinary skill in the art to prepare a graft amphoteric resin comprising cationic, anionic and neutral monomeric units as suggested, motivated by the reasonable expectation of success.

- 4. Claims 15-16, 19-31, 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Das et al. (US-444) or Aubay et al. (US-156) or Bunyard et al. (US-519) or JP-09-279084.
- U.S. 4,395,444to Das et al. discloses a cationic acrylic latex derived from various ethylenically unsaturated monomers, inclusive of anionic, cationic and non-ionic monomers within the scope of the instant neutral and part B units (col. 3, lines 6 to col. 4, line 6).

US 7,071,156 to Aubay et al. discloses fabric care composition comprising polymeric nanoparticles or nanolatex comprising a hydrophobic monomer units (N), and at least one hydrophilic monomer units (F), inclusive of cationic (F1), amphoteric (F2), anionic (F3), and non-ionic (F4) monomer units or mixtures thereof (see abstract; col. 2, line 61 to col. 4, line 50). In one embodiment, copolymer of methyl methacrylate/butyl acrylate/hydroxyethyl methacrylate/methacrylic acid/N, N-dimethyl-N-methacryloxyloxyethyl-N (3-suiphopropyl)ammonium sulphobetaine

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is disclosed within the scope of the instant copolymer (col. 7, lines 46-48).

US 7,141,519 to Bunyard et al. discloses ion triggerable cationic polymers comprising cationic monomers, hydrophobic monomers such as alkyl (meth)acrylate and carboxylic acid monomers within the scope of the instant part B and anionic unit (col. 6, line 31 to col. 7, line 39; see formula at col. 7, lines 20-30, wherein R_5 can be hydrogen).

JP-09-279084 discloses emulsion polymers derived from dialkylaminoalkyl (meth)acrylate, (meth)acrylamide, and itaconic acid, within the scope of the instant cationic, neutral, and anionic monomers. JP-084 further suggests other comonomers include butyl (methacrylate, vinyl acetate, styrene, acrylonitrile, and (meth)acrylic acid, embracing the instant Part B and anionic units (page 3, [0011].

Prior art references discussed above disclose radical polymerization processes of preparing copolymer compositions comprising, cationic, anionic, neutral and part B monomer units, within the scope of those expressed in the present claims.

Accordingly, it would have been obvious to one having ordinary skill in the art to prepare the various copolymer systems as taught in prior art disclosures, motivated by the reasonable

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expectation of success. Thus, rendering obvious the present claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helen L. Pezzuto whose telephone number is (571) 272-1108. The examiner can normally be reached on 8 AM to 4 PM, Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Helen L. Pezzuto/ Primary Examiner Art Unit 1796

hlp